

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L31/18 H01L31/0352 H01L31/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	YOSHIHIRO NAKATO ET AL: "SOLAR CELLS BASED ON A NEW JUNCTION TRANSPARENT CONDUCTOR/THIN INSULATOR HAVING ULTRAFINE METAL ISLANDS/SEMICONDUCTOR" PROCEEDINGS OF THE INTERNATIONAL PHOTOVOLTAIC SCIENCE AND ENGINEERING CONFERENCE. KYOTO, NOV. 26 - 30, 1990, KYOTO, KYOTO UNIVERSITY, JP, vol. CONF. 5, 26 November 1990 (1990-11-26), pages 939-942, XP000215152 the whole document ----- -/--	1-4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

10/03/2005

Name and mailing address of the ISA

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INTERNATIONALER RECHERCHENBERICHT

Internationales Aktenzeichen

PCT/DE2004/002228

C.(Fortsetzung) ALS WESENTLICH ANGESEHENE UNTERLAGEN

Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
Y	STROLLO A G M ET AL: "A closed-form two-dimensional model of a laser grooved solar cell" SOLID-STATE ELECTRONICS UK, Bd. 35, Nr. 8, August 1992 (1992-08), Seiten 1109-1118, XP002318919 ISSN: 0038-1101 das ganze Dokument	1-6,9,10
Y	EP 1 182 709 A (IPU, INSTITUTTET FOR PRODUKTUDVIKLING; ENTHONE-OMI B.V; BP SOLAR LIMI) 27. Februar 2002 (2002-02-27) Absätze '0063! - '0078!; Ansprüche 1-17	5,6,9,10
A	GREEN M A ET AL: "20% EFFICIENT LASER GROOVED, BURIED CONTACT SILICON SOLAR CELLS" PHOTOVOLTAIC SPECIALISTS CONFERENCE. LAS VEGAS, SEPT. 26 - 30, 1988, NEW YORK, IEEE, US, Bd. VOL. 1 CONF. 20, 26. September 1988 (1988-09-26), Seiten 411-414, XP000166680 das ganze Dokument	1-10
A	JENSEN J A D ET AL: "ELECTROCHEMICAL DEPOSITION OF BURIED CONTACTS IN HIGH-EFFICIENCY CRYSTALLINE SILICON PHOTOVOLTAIC CELLS" JOURNAL OF THE ELECTROCHEMICAL SOCIETY, ELECTROCHEMICAL SOCIETY. MANCHESTER, NEW HAMPSHIRE, US, Bd. 150, Nr. 1, Januar 2003 (2003-01), Seiten G49-G57, XP001090500 ISSN: 0013-4651 das ganze Dokument	5-10
A	VETTIGER P ET AL: "THE MILLIPEDE-NANOTECHNOLOGY ENTERING DATA STORAGE" IEEE TRANSACTIONS ON NANOTECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NY, US, Bd. 1, Nr. 1, März 2002 (2002-03), Seiten 39-55, XP001186695 ISSN: 1536-125X das ganze Dokument	7,8

INTERNATIONALER RECHERCHENBERICHT

Angaben zu Veröffentlichungen, die zur selben Patentfamilie gehören

Internationales Aktenzeichen

PCT/DE2004/002228

Im Recherchenbericht angeführtes Patentdokument		Datum der Veröffentlichung	Mitglied(er) der Patentfamilie		Datum der Veröffentlichung
EP 1182709	A	27-02-2002	EP	1182709 A1	27-02-2002
			AU	7960401 A	25-02-2002
			CN	1447989 T	08-10-2003
			WO	0215282 A1	21-02-2002
			JP	2004507093 T	04-03-2004
			US	2003172969 A1	18-09-2003
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